

DOCUMENT A00830

ARMY CORPS OF ENGINEERS

GENERAL PERMIT

AND APPLICATION

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DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 19, 2014

Regulatory Division
File Number: NAE-2013-02144

Ms. Susan McArthur, Wetlands Unit Supervisor
Massachusetts Department of Transportation – Highway Division
10 Park Plaza, Suite 4260
Boston, Massachusetts 02116

Dear Ms. McArthur:

We have reviewed your application to discharge fill material into 13,798 ft² (0.30 acre) of emergent wetlands in order to extend the existing MBTA Silver Line Bus Rapid Transit Line from South Station and the Boston Seaport District to Chelsea and East Boston, MA. This project is located in unnamed wetlands on the former Grand Junction Railroad right-of-way between Cottage Street and Library Street, Chelsea, Massachusetts. The work is shown on the enclosed plans entitled "SILVER LINE GATEWAY, CHELSEA, MA, SUFFOLK COUNTY", on 9 sheets, and dated "FEB. 2014".

Based on the information you have provided, we have determined that the proposed activity, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts on waters of the United States, including wetlands. Therefore, this work is authorized as a Category 2 activity under the enclosed Federal permit known as the Massachusetts General Permit (GP). This work must be performed in accordance with the terms and conditions of the GP and also in compliance with the following special condition(s):

1. In order to ensure that the vegetated swales/bioretention areas replace on-site water quality functions of the existing wetlands, a Vegetated Swale/Bioretention Basin Construction Report must be forwarded to this office by December 31 in the year of completion of all construction activities, or by an approved extension. For purposes of this special condition, "completion" means all activities associated with site grading, seeding, planting and/or transplanting. The construction report must include the following:
 - a. An "as-built" plan view which includes a topographic survey of the vegetated swale areas/bioretention basins at 0.5 foot contour intervals, and with respect to the transportation corridor and multiple-use trail.
 - b. Photographs from fixed locations, along with a photo-location map.
 - c. A list of plants introduced through seeding and/or planting.
 - d. Water depth and date of measurement from representative locations within the construction area. The sample points will be fixed locations and shall be plotted on the photo-location map.

e. A list of any modifications that were made from the original plan.

2. Except where stated otherwise, reports, drawings, correspondence and any other submittals required by this permit shall be marked with the words "Permit No. NAE-2013-02144" and shall be submitted via: a) MAIL: PATS Branch - Regulatory Division, Corps of Engineers, New England District, 696 Virginia Road, Concord, MA 01742-2751, or b) FAX: (978) 318-8303. Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. Requirements for immediate notification to the Corps shall be done by telephone to (978) 318-8338.

You are responsible for complying with all of the GP's requirements. Please review the enclosed GP carefully, in particular the GP conditions beginning on Page 6, to familiarize yourself with its contents. You should ensure that whoever does the work fully understands the requirements and that a copy of the permit document and this authorization letter are at the project site throughout the time the work is underway.

This determination becomes valid only after the Massachusetts Department of Environmental Protection (MassDEP) issues or waives Water Quality Certification (WQC) as required under Section 401 of the Clean Water Act. In the event the MassDEP denies the 401 WQC, this determination becomes null and void. The address of the MassDEP Regional office for your area is provided in the enclosed GP.

Your project is located within, or may affect resources within the coastal zone. The Massachusetts Office of Coastal Zone Management (CZM) has already determined that no further Federal Consistency Review is required.

This GP expires on January 20, 2015. Activities authorized under this GP that have commenced (i.e., are under construction) or are under contract to commence before this GP expires will have until January 21, 2016 to complete the activity under the terms and general conditions of the current GP. For work within Corps jurisdiction that is not completed by January 21, 2016, you will need to reference any reissued GP to see if your project is still authorized under Category 1 (no application required), or Category 2 (application required). If it is no longer authorized you must submit an application and receive written authorization before you can continue work within our jurisdiction. Please contact us immediately if you change the plans or construction methods for work within our jurisdiction. This office must approve any changes before you undertake them.

This authorization requires you to complete and return the enclosed Work Start Notification Form(s) to this office at least two weeks before the anticipated starting date. You must also complete and return the enclosed Compliance Certification Form within one month following the completion of the authorized work and any required mitigation (but not mitigation monitoring, which requires separate submittals).

This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, submit a request for an approved jurisdictional determination in writing to this office.

This permit does not obviate the need to obtain other federal, state, or local authorizations required by law, as listed on Page 2 of the GP. Performing work not specifically authorized by this determination or failing to comply with any special condition(s) provided above or all the terms and conditions of the GP may subject you to the enforcement provisions of our regulations.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

Please contact Alan Anacheka-Nasemann, of my staff, at 978-318-8214, or via e-mail at: alan.r.anacheka-nasemann@usace.army.mil if you have any questions.

Sincerely,



Robert J. DeSista
Acting Chief, Regulatory Division

Enclosures

Copies Furnished:

Ed Reiner, U.S. EPA, Region 1, Boston, Massachusetts, reiner.ed@epa.gov

Christopher Ross, DEP SERO, Wetlands and Waterways, Lakeville, Massachusetts,

Christopher.Ross@state.ma.us

Robert Boeri, Coastal Zone Management, Boston, Massachusetts, Robert.Boeri@state.ma.us

Chelsea Conservation Commission, City Hall, 500 Broadway, Room #101-104, Chelsea, MA
02150

Thomas Keough, AECOM, Chelmsford, MA, Thomas.Keough@aecom.com



**US Army Corps
of Engineers®**
New England District

**GENERAL PERMIT
WORK-START NOTIFICATION FORM**
(Minimum Notice: Two weeks before work begins)

```
*****
*   MAIL TO: U.S. Army Corps of Engineers, New England District   *
*   Permits and Enforcement Branch                               *
*   Regulatory Division                                           *
*   696 Virginia Road                                             *
*   Concord, Massachusetts 01742-2751                             *
*****
```

Corps of Engineers Permit No. **NAE-2013-02144** was issued to **MassDOT – Highway Division**, on **March 19, 2014**. This work is located in **unnamed wetlands** at the former **Grand Junction Railroad Right of Way between Cottage Street and Library Street, Chelsea, Massachusetts**. The permit authorized the permittee to **discharge fill material** into **13,798 ft² (0.30 acre)** of **emergent wetlands** in order to **extend the existing MBTA Silver Line Bus Rapid Transit Line from South Station and the Boston Seaport District to Chelsea and East Boston, MA**.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Name of Person/Firm: _____

Business Address: _____

Telephone Numbers: () _____ () _____

Proposed Work Dates: **Start:** _____ **Finish:** _____

Permittee/Agent Signature: _____ **Date:** _____

Printed Name: _____ **Title:** _____

Date Permit Issued: _____ **Date Permit Expires:** _____

FOR USE BY THE CORPS OF ENGINEERS

PM: Anacheka-Nasemann **Submittals Required:** YES

Inspection Recommendation: _____



**US Army Corps
of Engineers®**
New England District

(Minimum Notice: Permittee must sign and return notification
within one month of the completion of work.)

COMPLIANCE CERTIFICATION FORM

Permit Number: NAE-2013-02144

Project Manager: Anacheke-Nasemann

Name of Permittee: MassDOT – Highway Division

Permit Issuance Date: March 19, 2014

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

* MAIL TO: U.S. Army Corps of Engineers, New England District *
* Permits and Enforcement Branch A *
* Regulatory Division *
* 696 Virginia Road *
* Concord, Massachusetts 01742-2751 *

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Printed Name

Date of Work Completion

() _____
Telephone Number

() _____
Telephone Number



Portion of Boston North and Boston South
1:25000 USGS quadrangles.
Source: Esri

— Proposed Project

Figure 1
Project Locus Map
Chelsea, Massachusetts

October 2013

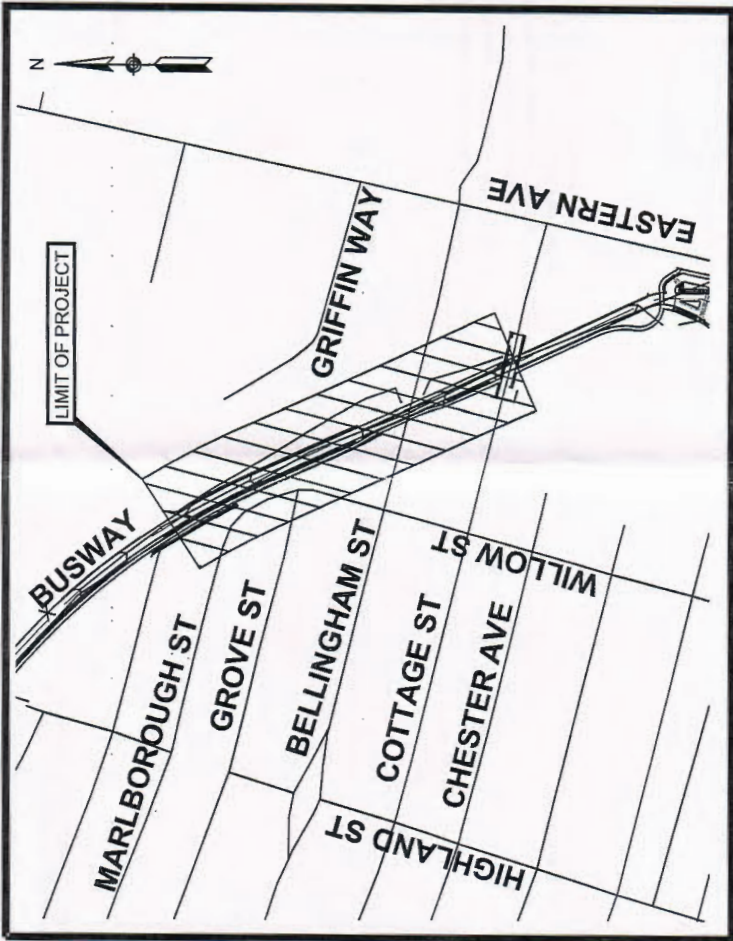
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF
SILVER LINE GATEWAY
IN THE CITY OF
CHELSEA
SUFFOLK COUNTY
FEDERAL AID PROJECT NO.

SECTION 401/404 PERMIT APPLICATION PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & GENERAL NOTES
3-5	CONSTRUCTION DETAIL PLAN
6-7	EXISTING CONDITION PLAN
8-9	PROPOSED SITE PLAN

INDEX



WILL PLOT TO SCALE ON 11"x17" FORMAT

APPROXIMATE LENGTH OF PROJECT = 1.3 MILES

DATE: FEBRUARY 2014



AECOM

GENERAL NOTES

1.

THE EXISTING CONDITIONS SHOWN ON THIS BASEMAP ARE THE RESULT AN AERIAL MAPPING SURVEY PERFORMED BY THE SANBORN MAP COMPANY, INC. AS FLOWN ON SATURDAY SEPTEMBER 28, 2013 AND AN ON THE GROUND INSTRUMENT SURVEY PERFORMED BETWEEN OCTOBER 25, 2013 AND JANUARY 9, 2014 BY GREEN INTERNATIONAL AFFILIATES, INC. PORTIONS OF WASHINGTON AVENUE WERE SURVEYED BY RICHARD F. KAMINSKI & ASSOCIATES, INC. IN MARCH OF 2006, GREEN INTERNATIONAL AFFILIATES, INC. HAS UPDATED THIS INFORMATION TO REFLECT RECONSTRUCTION ON WASHINGTON AVENUE NORTH OF THE RAILROAD CROSSING.
2.

HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) ESTABLISHED BY GPS METHODS. VERTICAL DATUM IS NAVD88 ESTABLISHED BY GPS METHODS.
3.

WETLANDS WERE DELINEATED BY AECOM IN OCTOBER 2013 IN ACCORDANCE WITH USACE AND MASSDEP PROCEDURES AND FIELD LOCATED BY GREEN INTERNATIONAL AFFILIATES, INC. ON NOVEMBER 5 & 6 2013.
4.

THE RIGHT OF WAY LINES SHOWN ON THIS PLAN ARE THE DIRECT RESULT OF AN INSTRUMENT SURVEY PERFORMED ON THE GROUND BY GREEN INTERNATIONAL AFFILIATES, INC. WITH AN ERROR OF CLOSURE LESS THAN 1:10,000, AND FROM PLANS AND DEEDS OF RECORD. PRIVATE PROPERTY LINES ARE FROM GIS INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
5.

THE CONTRACTOR SHALL INSTALL COMPOST FILTER TUBES AT THE BOTTOM OF SLOPE PRIOR TO START OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
6.

DISTURBED UNPAVED SURFACES WITHIN THE PROJECT LIMITS SHALL BE TOPSOILED & SEEDED.
7.

AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
8.

THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO ABUTTING PROPERTIES DURING CONSTRUCTION.

GENERAL SYMBOLS

EXISTING PROPOSED

JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER

CATCH BASIN

CATCH BASIN CURB INLET

FLAG POLE

GAS PUMP

MAIL BOX

POST SQUARE

POST CIRCULAR

WELL

ELECTRIC HANDHOLE

FENCE GATE POST

GAS GATE

BORING HOLE

MONITORING WELL

TEST PIT

HYDRANT

LIGHT POLE

COUNTY BOUND

GPS POINT

CABLE MANHOLE

DRAINAGE MANHOLE

ELECTRIC MANHOLE

GAS MANHOLE

MISC MANHOLE

SEWER MANHOLE

TELEPHONE MANHOLE

WATER MANHOLE

MASSACHUSETTS HIGHWAY BOUND

MONUMENT

STONE BOUND

TOWN OR CITY BOUND

TRAVERSE OR TRIANGULATION STATION

TROLLEY POLE OR GUY POLE

TRANSMISSION POLE

UTILITY POLE W/ FIREBOX

UTILITY POLE WITH DOUBLE LIGHT

UTILITY POLE W/ 1 LIGHT

UTILITY POLE

BUSH

TREE

STUMP

SWAMP / MARSH

WATER GATE

PARKING METER

OVERHEAD CABLE/WIRE

CURBING

CONTOURS

UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)

UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)

UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)

UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)

UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)

UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)

BALANCE STONE WALL

GUARD RAIL - STEEL POSTS

GUARD RAIL - WOOD POSTS

CHAIN LINK OR METAL FENCE

WOOD FENCE

HAY BALES/SILT FENCE

TREE LINE OR LIMIT OF CLEARING AND GRUBBING

SAWCUT LINE

TOP OR BOTTOM OF SLOPE

LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY

BANK OF RIVER OR STREAM

BORDER OF WETLAND

100 FT WETLAND BUFFER

200 FT RIVERFRONT BUFFER

STATE HIGHWAY LAYOUT

TOWN OR CITY LAYOUT

COUNTY LAYOUT

RAILROAD SIDELINE

TOWN OR CITY BOUNDARY LINE

PROPERTY LINE OR APPROXIMATE PROPERTY LINE

EASEMENT



AECOM

APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

SILVER LINE GATEWAY

CHELSEA, MA

SUFFOLK COUNTY

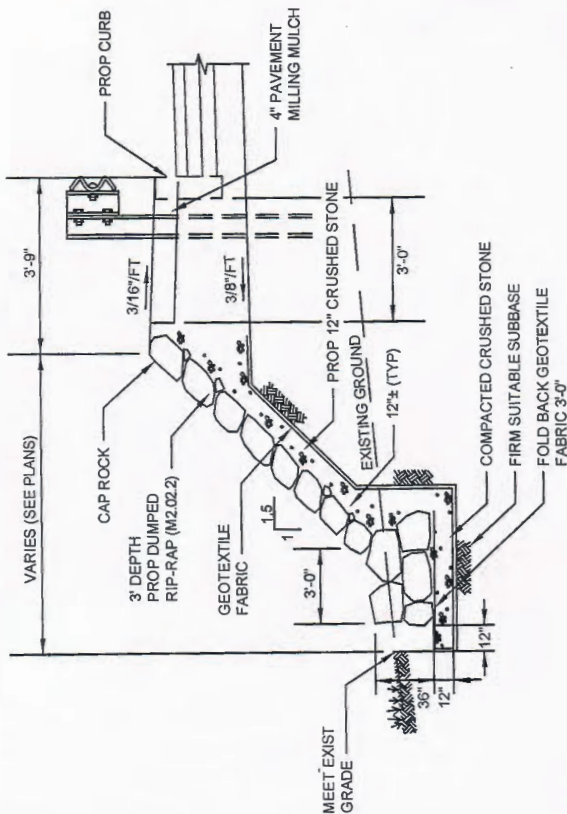
LEGEND & GENERAL NOTES

GN-1

SHEET 2 OF 9

DATE: FEB. 2014

SCALE: N/A



NOTE:

RIP-RAP SLOPE SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT DRAWING 2.4.1 OF THE BRIDGE MANUAL STANDARD SPECIFICATIONS ITEM 983. AND MATERIALS SHALL MEET THE REQUIREMENTS AS SPECIFIED IN SUBSECTION M2 D2.2.

RIP-RAP SLOPE DETAIL

NTS

5' SWALE WIDTH

SEE PLANTING LIST FOR PLANT DETAILS

1:1

PROP 6" SOIL

2" TO 3" MULCH

FILTER SOIL MIX

FILTER FABRIC

CRUSHED STONE

UNDISTURBED SUBGRADE

6" PERFORATED PIPE (WRAPPED IN FILTER FABRIC)

10"

VARIES (12" MIN)

NOTE:

FILTER SOIL SHALL HAVE THE FOLLOWING COMPOSITION:

- SAND: 50%
- TOPSOIL: 30%
- ORGANIC MATTER: 20%
- pH RANGE: 5.5 - 6.5

NOTE:

FILTER SOIL SHALL HAVE THE FOLLOWING COMPOSITION:

- SAND: 50%
- TOPSOIL: 30%
- ORGANIC MATTER: 20%
- pH RANGE: 5.5 - 6.5

NOT FOR CONSTRUCTION

NTS

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

**SILVER LINE GATEWAY
CHELSEA, MA
SUFFOLK COUNTY**

APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

CONSTRUCTION DETAIL PLAN 1

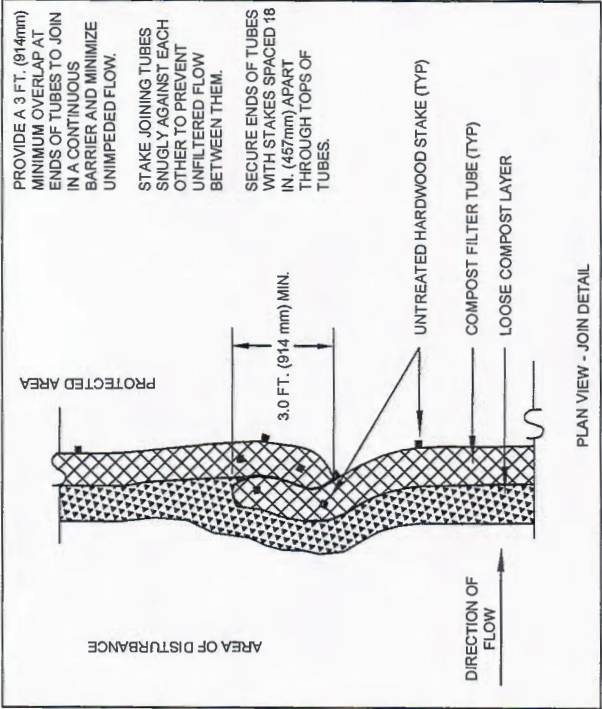
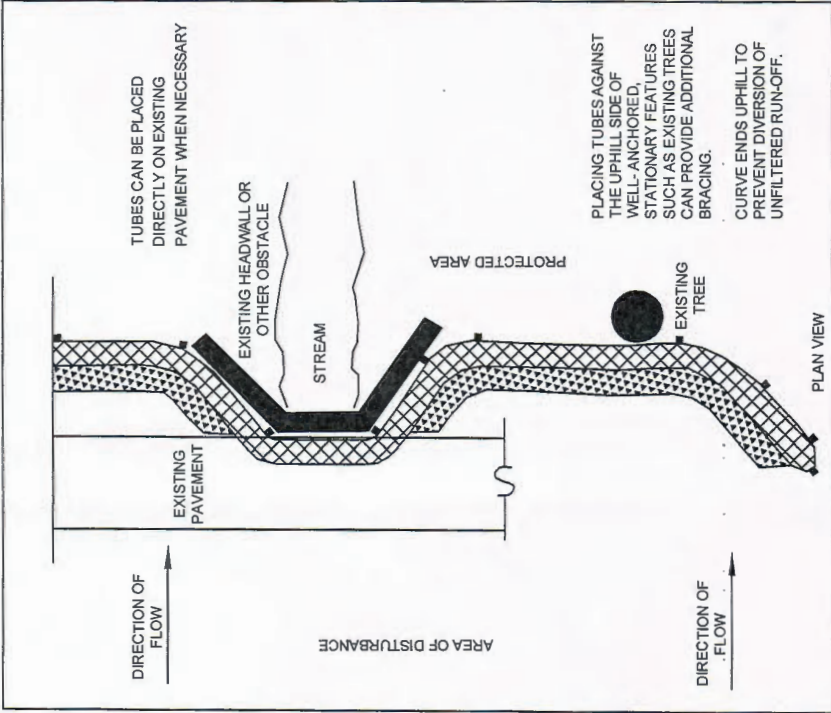
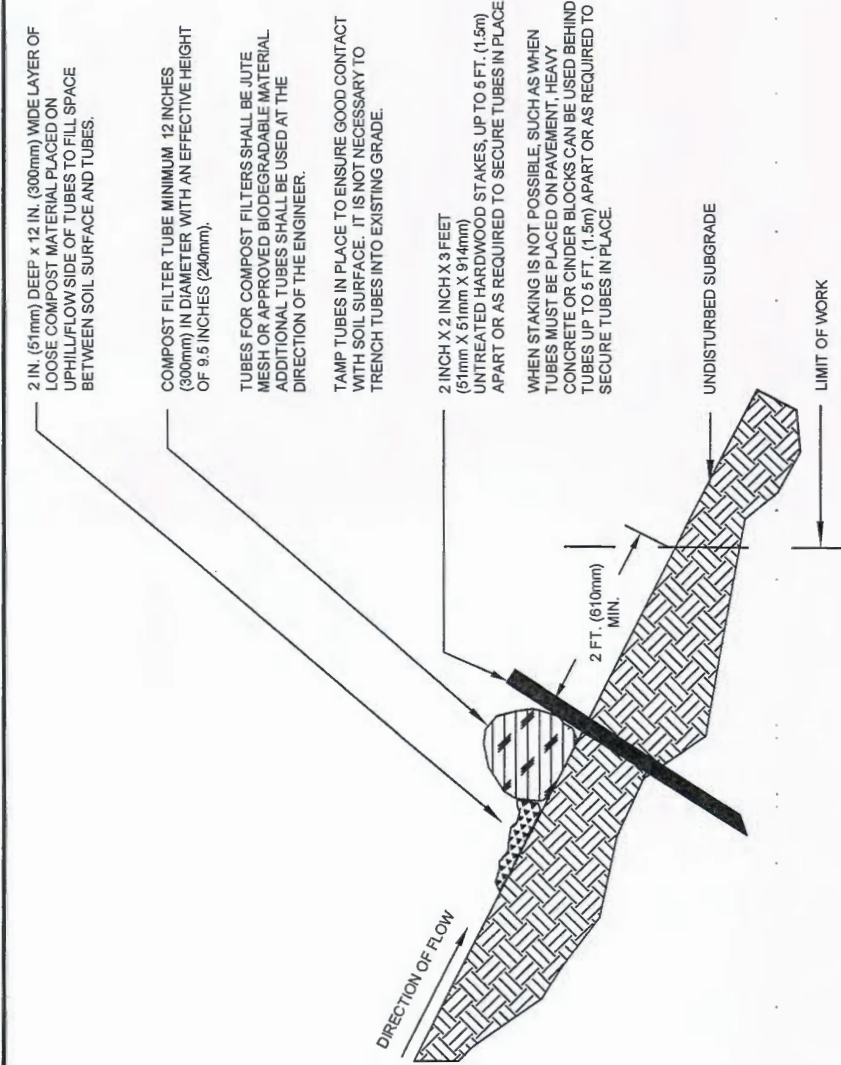
SHEET 3 OF 9

DATE: FEB. 2014

SCALE: NTS

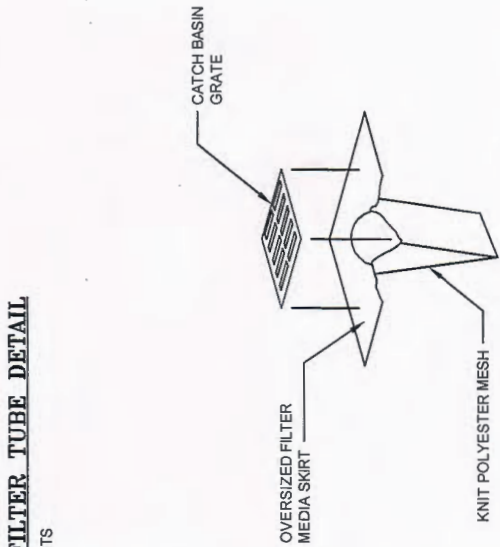
Highway Division
Massachusetts Department of Transportation

AECOM



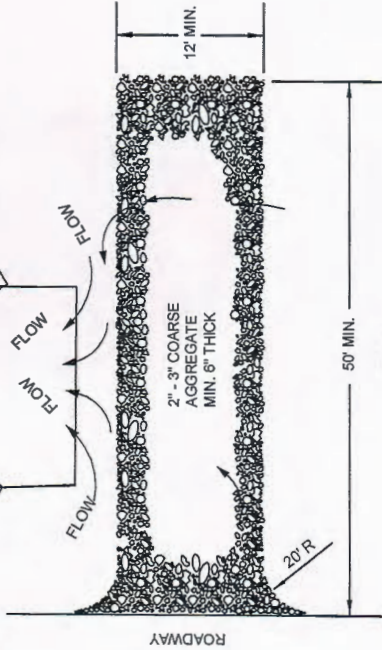
- NOTES:
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSE OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
 2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
 3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
 4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

SINGLE COMPOST FILTER TUBE DETAIL
NTS



NOTE:

USE STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF AS REQUIRED.



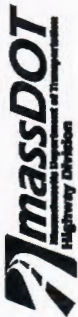
NOTE:

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT OUT OF THE CONSTRUCTION AREA. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CATCH BASIN PROTECTION
NTS

NOT FOR CONSTRUCTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NTS



AECOM

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

SILVER LINE GATEWAY
CHELSEA, MA
SUFFOLK COUNTY

CONSTRUCTION DETAIL PLAN 2

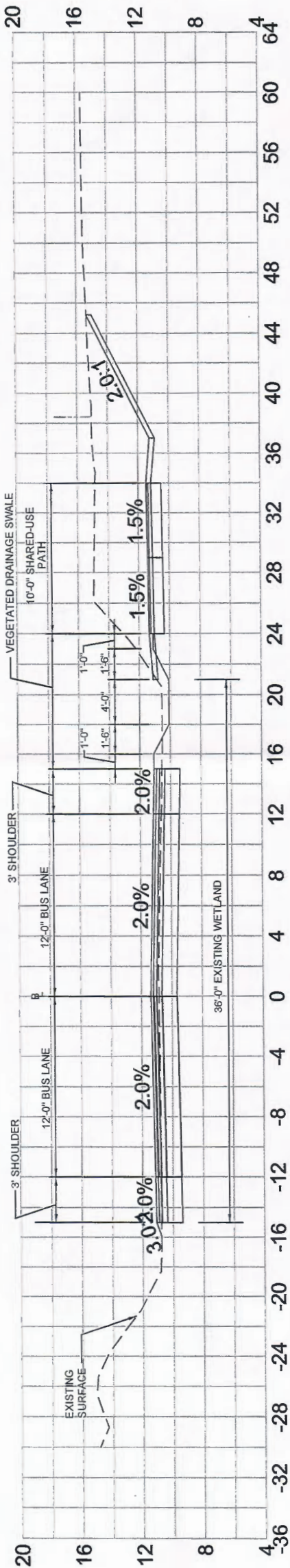
DT-2

SHEET 4 OF 9

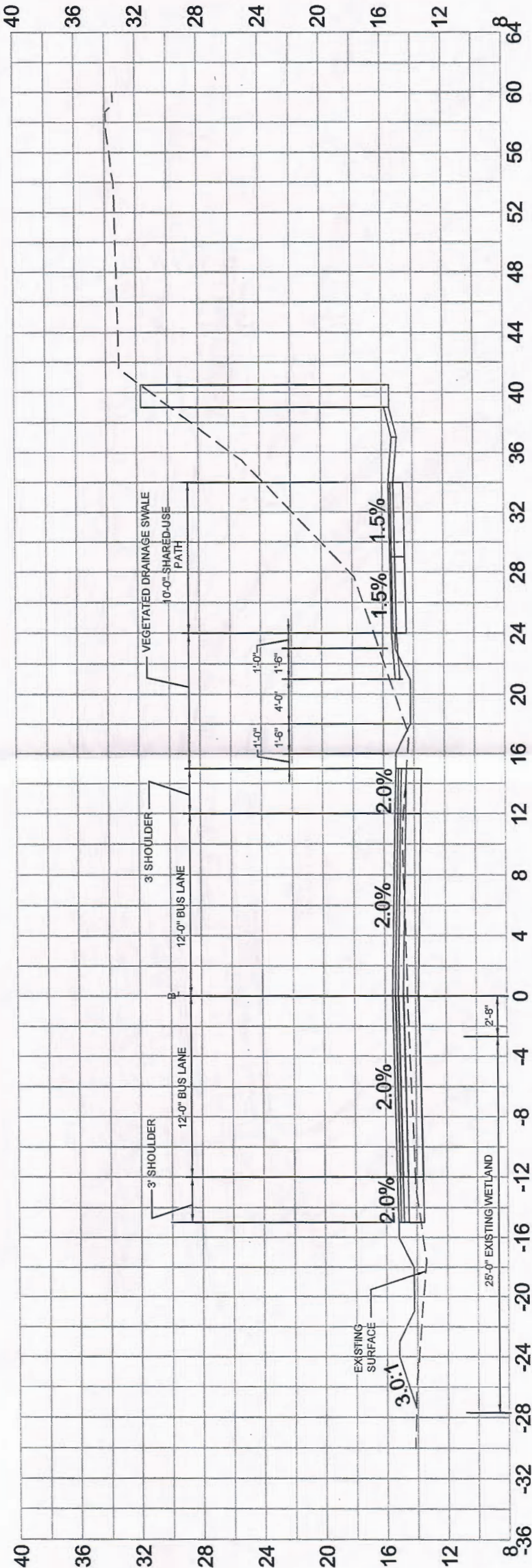
APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

DATE: FEB. 2014

SCALE: NTS

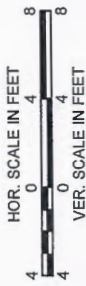


CROSS SECTION VIEW OF WETLAND AREA #1
STA 75+50



CROSS SECTION VIEW OF WETLAND AREA #2
STA 69+50

NOT FOR CONSTRUCTION



WILL PLOT TO SCALE ON 11"x17" FORMAT

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
SILVER LINE GATEWAY CHELSEA, MA SUFFOLK COUNTY
CONSTRUCTION DETAIL PLAN 2
DT-3
SHEET 5 OF 9

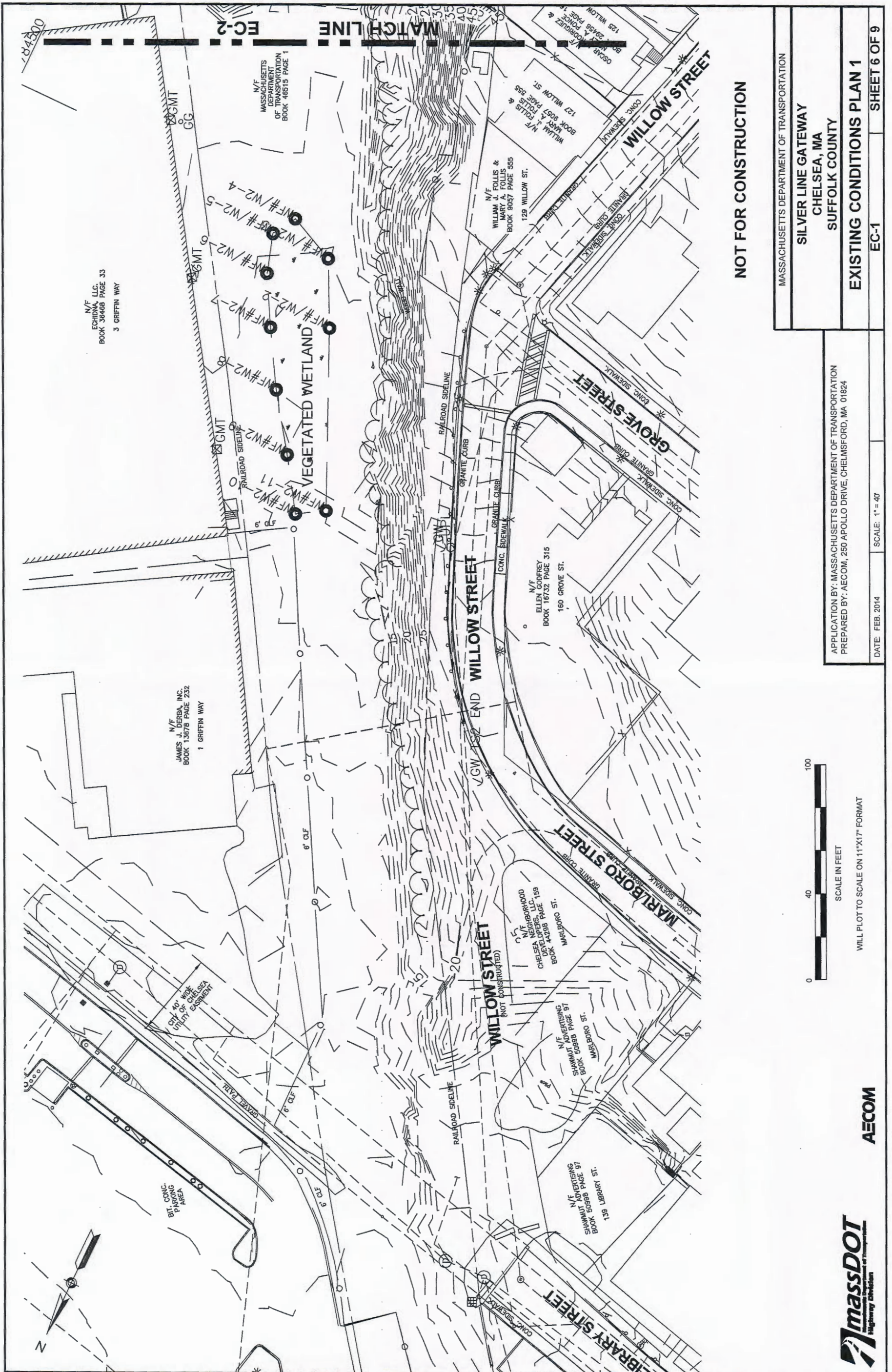
APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

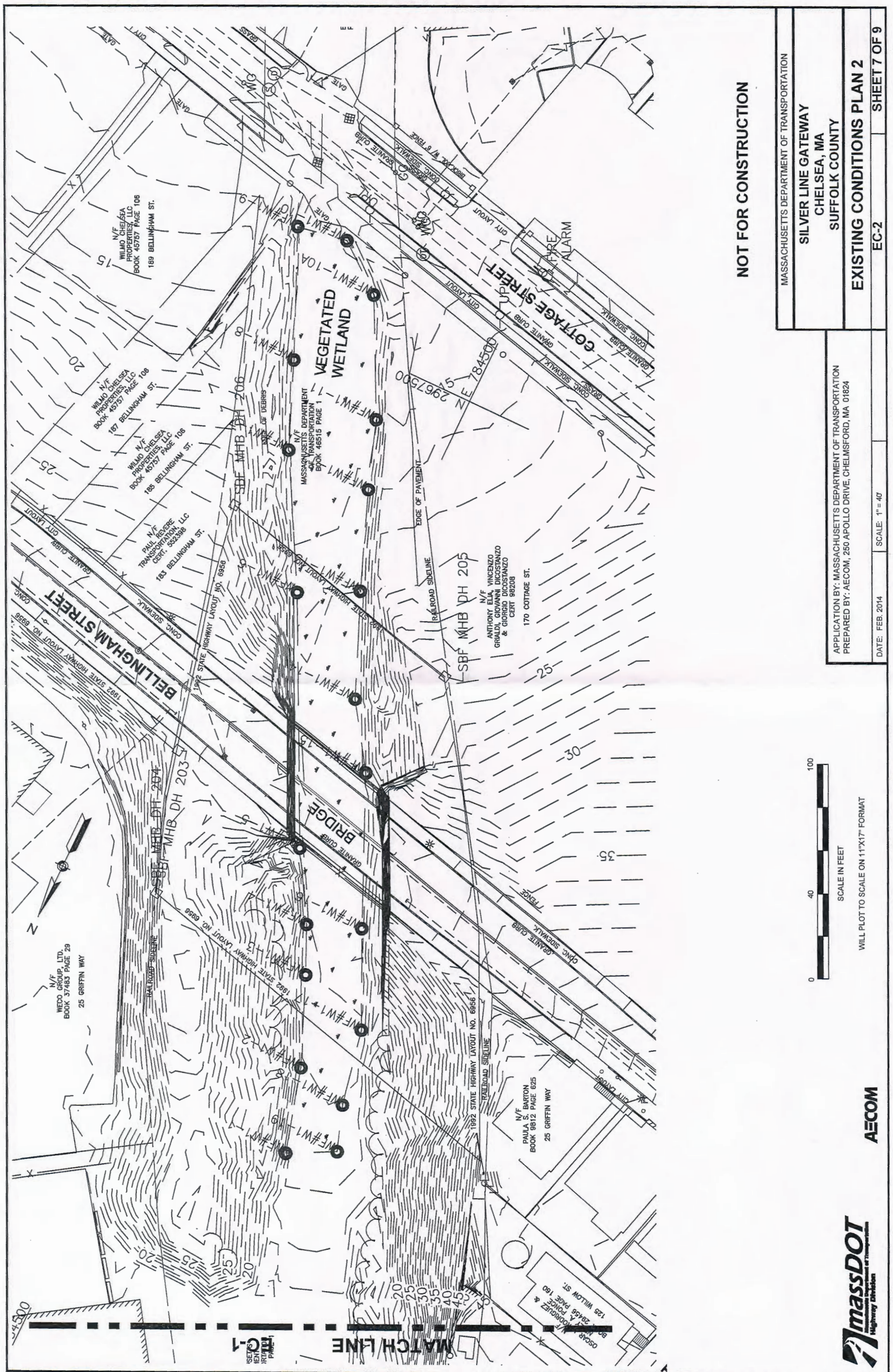
SCALE: AS SHOWN

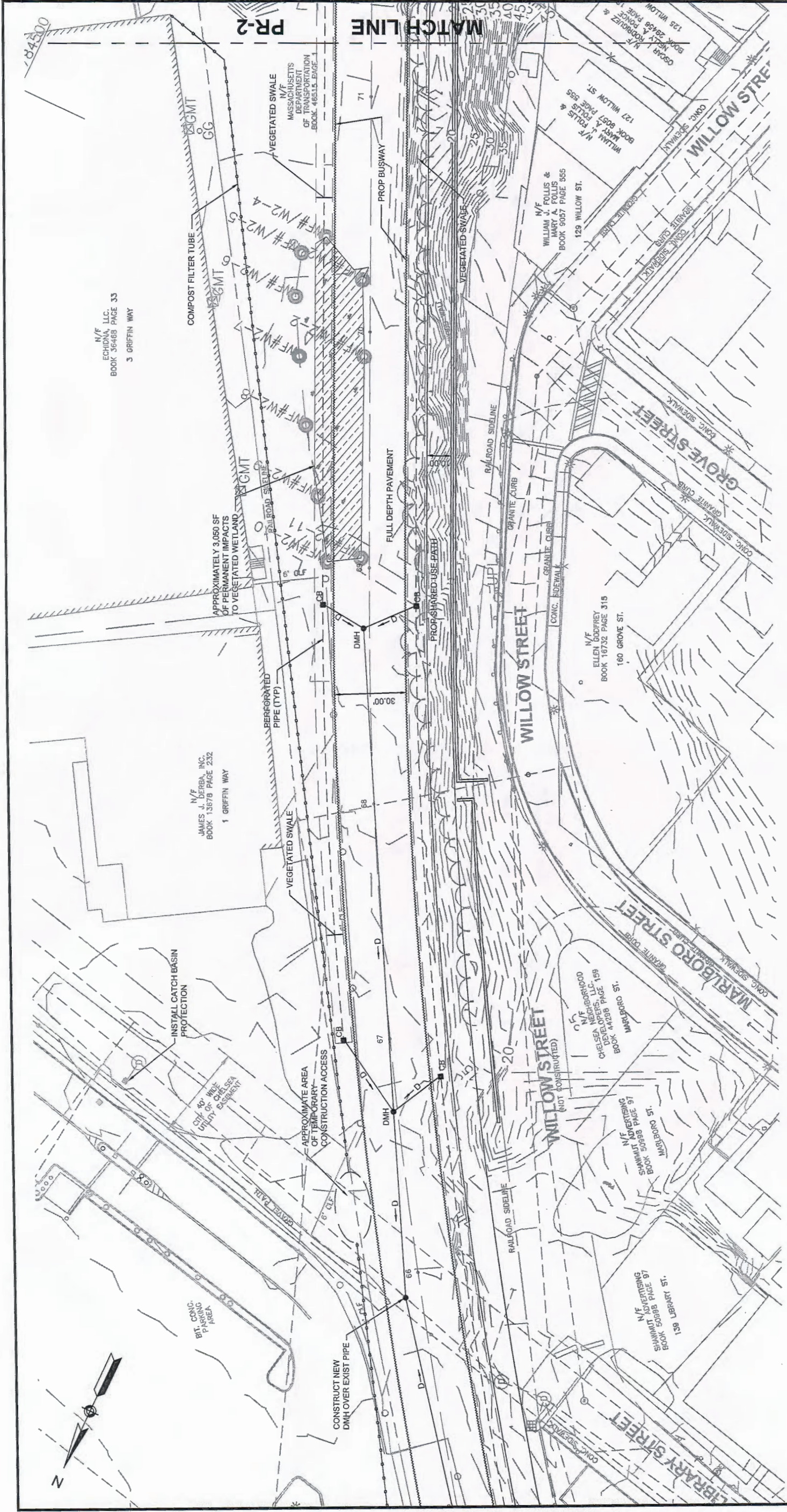
DATE: FEB. 2014



AECOM







LEGEND:



13,798 SF PERMANENT IMPACTS TO VEGETATED WETLANDS



SCALE IN FEET

WILL PLOT TO SCALE ON 11"x17" FORMAT

NOT FOR CONSTRUCTION

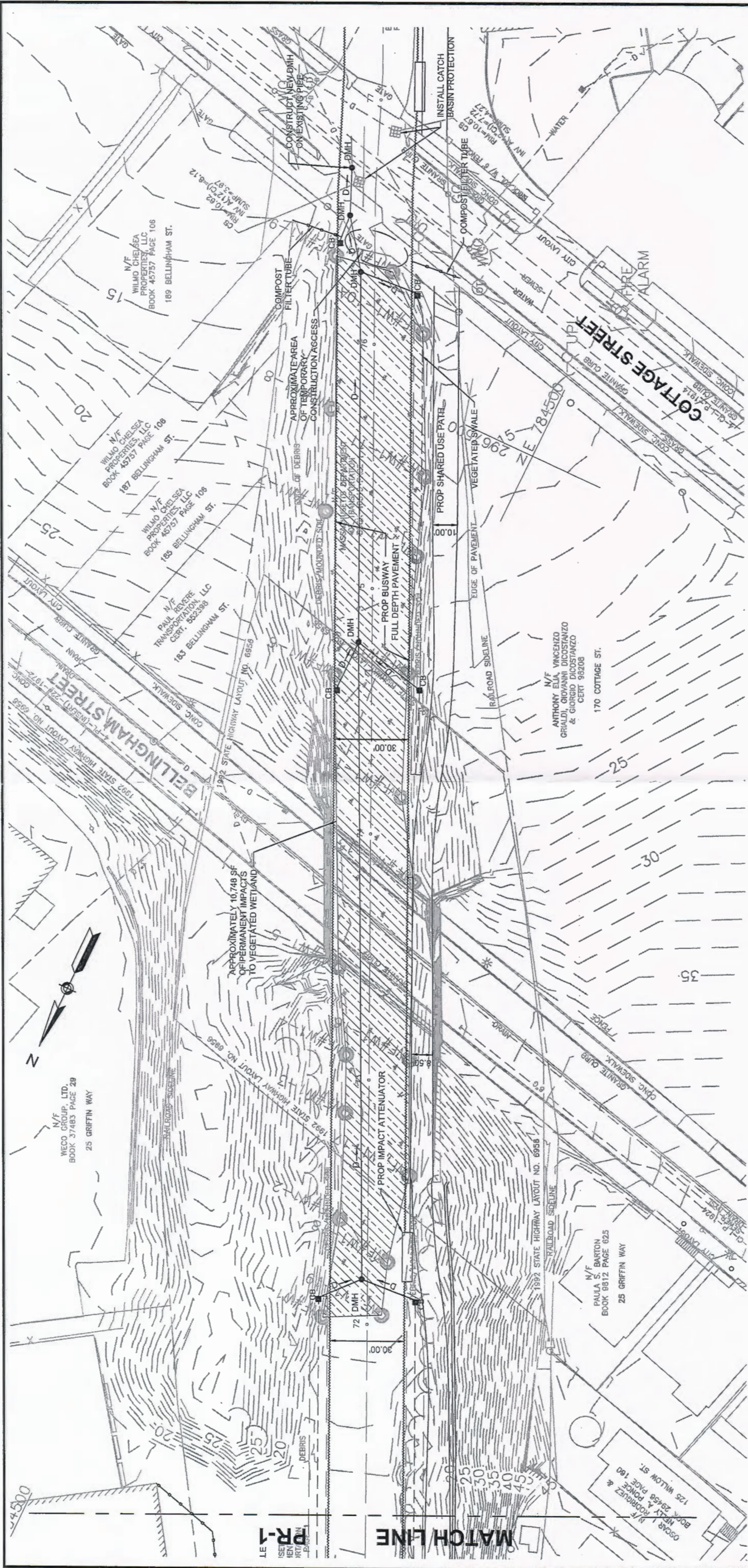
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION	
SILVER LINE GATEWAY CHELSEA, MA SUFFOLK COUNTY	
PROPOSED SITE PLAN 1	
PR-1	SHEET 8 OF 9

APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

DATE: FEB. 2014 SCALE: 1" = 40'



AECOM



LEGEND:



13,798 SF PERMANENT IMPACTS TO VEGETATED WETLANDS



SCALE IN FEET

WILL PLOT TO SCALE ON 11"x17" FORMAT



AECOM

NOT FOR CONSTRUCTION

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION	
SILVER LINE GATEWAY CHELSEA, MA SUFFOLK COUNTY	
PROPOSED SITE PLAN 2	
PR-2	SHEET 9 OF 9

APPLICATION BY: MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
PREPARED BY: AECOM, 250 APOLLO DRIVE, CHELMSFORD, MA 01824

DATE: FEB. 2014 SCALE: 1" = 40'